



Appendix B

E-UTRA Band 5



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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	limit (dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.43	21.78	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.45	21.8	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.30	21.65	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.59	21.94	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.48	21.83	38.45	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.60	21.95	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.59	20.94	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.54	21.89	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.58	21.93	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.49	21.84	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.70	22.05	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.54	21.89	38.45	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.41	21.76	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.56	20.91	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.31	21.66	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.40	21.75	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.36	21.71	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.35	21.7	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.58	21.93	38.45	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.57	21.92	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.48	20.83	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	21.95	20.3	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.06	20.41	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	21.89	20.24	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	22.70	21.05	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	22.65	21	38.45	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.66	21.01	38.45	PASS



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Band5	1.4MHz	16QAM	20407	6RB#0	21.53	19.88	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.15	20.5	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.06	20.41	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.25	20.6	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	22.65	21	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	22.73	21.08	38.45	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	22.61	20.96	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.71	20.06	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.24	20.59	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.28	20.63	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.00	20.35	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	22.58	20.93	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	22.45	20.8	38.45	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	22.59	20.94	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.62	19.97	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.24	21.59	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.48	21.83	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.41	21.76	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.63	20.98	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.49	20.84	38.45	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.47	20.82	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.46	20.81	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.45	21.8	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.60	21.95	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.44	21.79	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.67	21.02	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.53	20.88	38.45	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.51	20.86	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.63	20.98	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.34	21.69	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.68	22.03	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.28	21.63	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#7	22.63	20.98	38.45	PASS



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Band5	3MHz	QPSK	20635	8RB#0	22.38	20.73	38.45	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.61	20.96	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.46	20.81	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.69	20.04	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	21.97	20.32	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.10	20.45	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.36	19.71	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.20	19.55	38.45	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.31	19.66	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.51	19.86	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.14	20.49	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.23	20.58	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.01	20.36	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.29	19.64	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#7	21.26	19.61	38.45	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.33	19.68	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.57	19.92	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.30	20.65	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.88	20.23	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.15	20.5	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.19	19.54	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.24	19.59	38.45	PASS
Band5	3MHz	16QAM	20635	8RB#4	21.22	19.57	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.60	19.95	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.39	21.74	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.38	21.73	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.25	21.6	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.64	20.99	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.36	20.71	38.45	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.39	20.74	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.54	20.89	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.18	21.53	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.69	22.04	38.45	PASS



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Band5	5MHz	QPSK	20525	1RB#0	23.16	21.51	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.69	21.04	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.50	20.85	38.45	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.50	20.85	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.52	20.87	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.54	21.89	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.14	21.49	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.54	21.89	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.69	21.04	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.36	20.71	38.45	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.64	20.99	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.48	20.83	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.57	20.92	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.96	20.31	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	21.85	20.2	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.48	19.83	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#0	21.29	19.64	38.45	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.19	19.54	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.31	19.66	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	21.97	20.32	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.32	20.67	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	21.92	20.27	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.39	19.74	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.32	19.67	38.45	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.39	19.74	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.56	19.91	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.19	20.54	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.00	20.35	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#0	21.94	20.29	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.36	19.71	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.30	19.65	38.45	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.06	19.41	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.54	19.89	38.45	PASS



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Band5	10MHz	QPSK	20450	1RB#0	23.29	21.64	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.77	22.12	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.24	21.59	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.54	20.89	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.47	20.82	38.45	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.68	21.03	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.50	20.85	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.27	21.62	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	22.82	21.17	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	24.23	22.58	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.66	21.01	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.79	21.14	38.45	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.48	20.83	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.55	20.9	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.32	21.67	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.45	21.8	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.38	21.73	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.54	20.89	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.56	20.91	38.45	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.56	20.91	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.57	20.92	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.07	20.42	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.26	20.61	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.14	20.49	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.51	19.86	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.58	19.93	38.45	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.51	19.86	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.65	20	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.16	20.51	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.31	20.66	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.31	20.66	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.58	19.93	38.45	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.54	19.89	38.45	PASS



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Band5	10MHz	16QAM	20525	25RB#0	21.62	19.97	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.60	19.95	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	21.83	20.18	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.00	20.35	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.00	20.35	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#0	21.50	19.85	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.50	19.85	38.45	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.58	19.93	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.53	19.88	38.45	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



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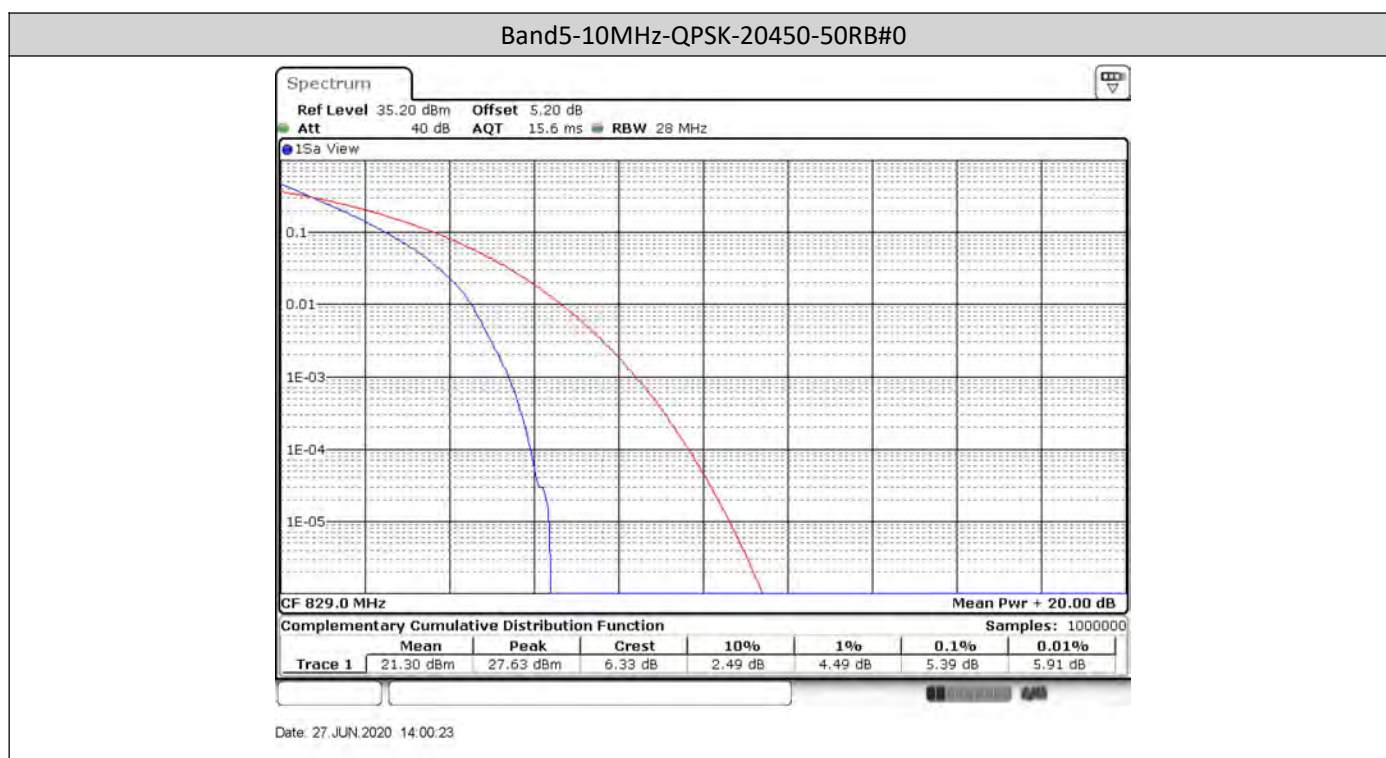


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.39	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	4.99	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.48	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.06	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.86	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.17	13	PASS

2.2. Test Plots



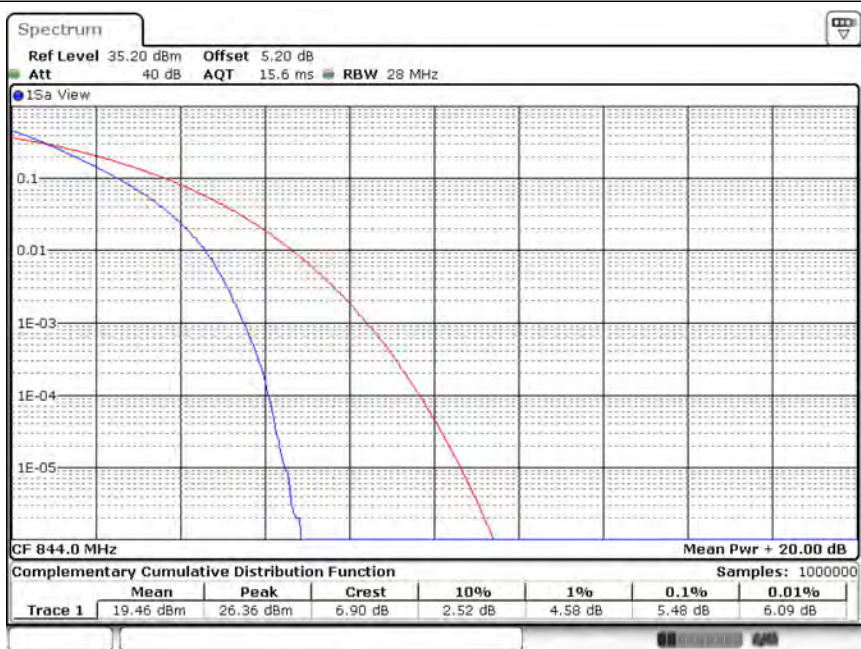


Band5-10MHz-QPSK-20525-50RB#0



Date: 27 JUN 2020 14:00:46

Band5-10MHz-QPSK-20600-50RB#0

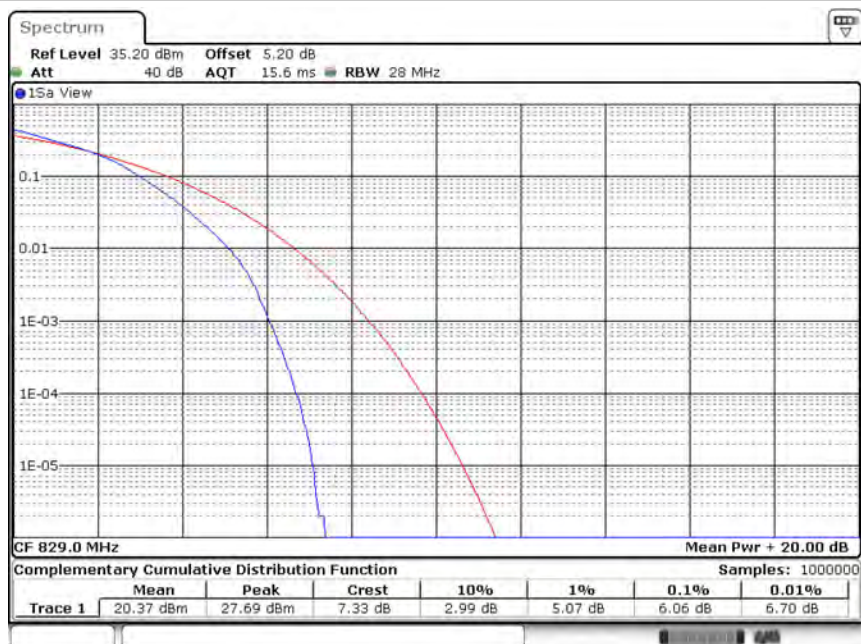


Date: 27 JUN 2020 14:01:09





Band5-10MHz-16QAM-20450-50RB#0



Date: 27 JUN 2020 14:00:35

Band5-10MHz-16QAM-20525-50RB#0



Date: 27 JUN 2020 14:00:57



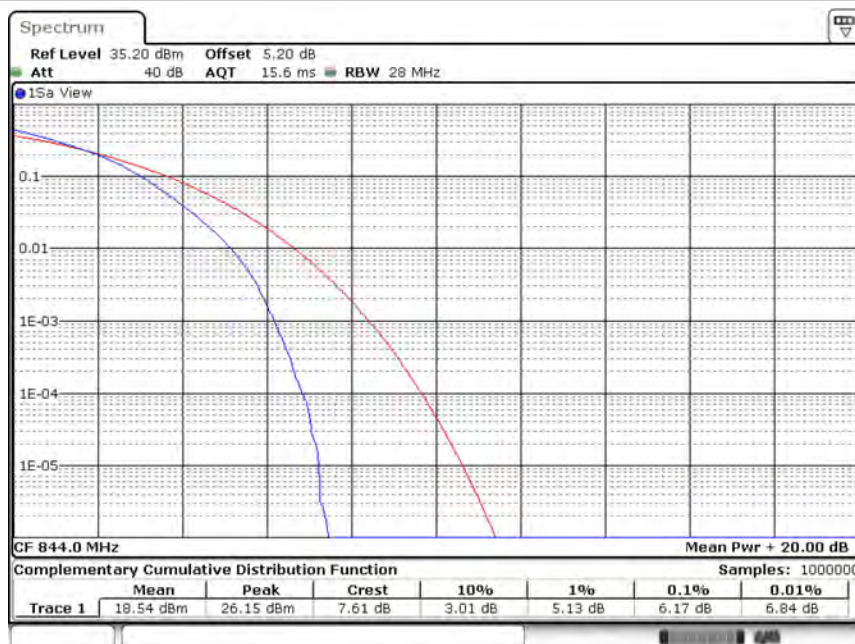
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Band5-10MHz-16QAM-20600-50RB#0



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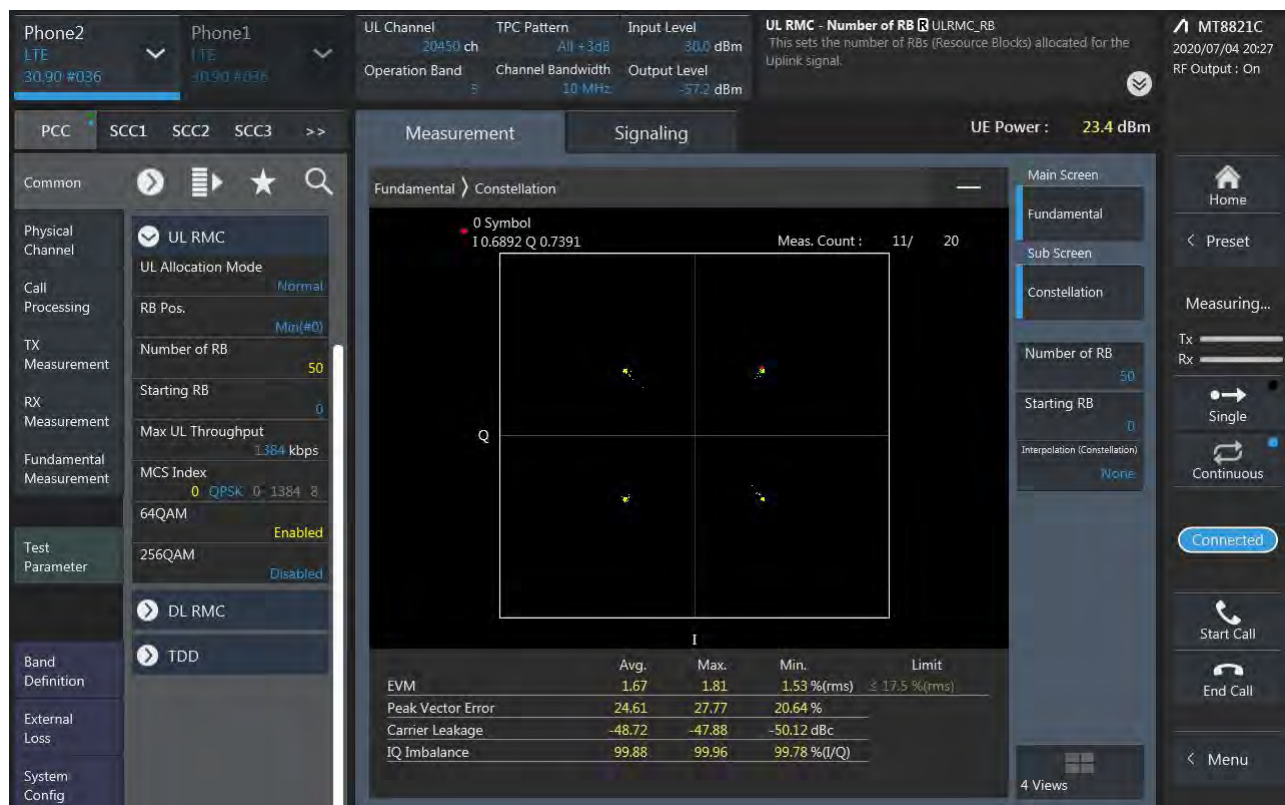
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

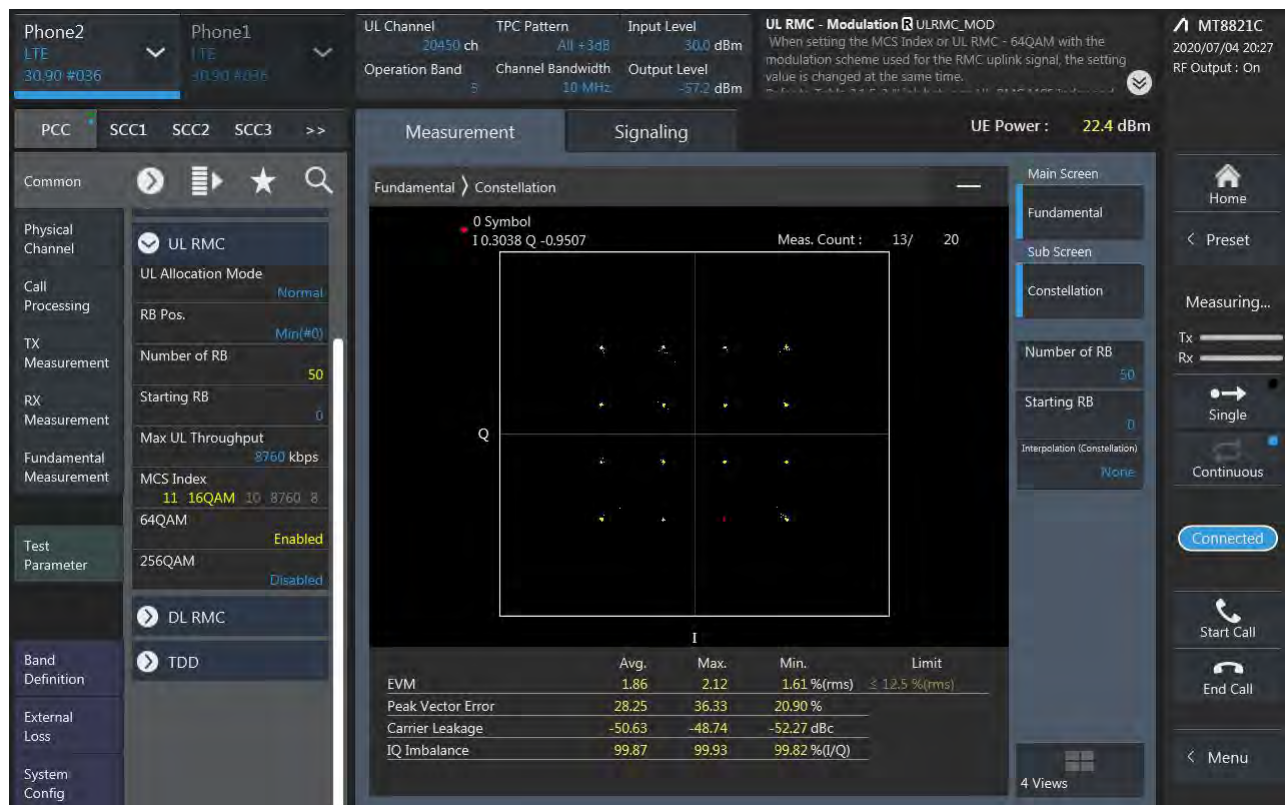
3.1.1. Test Channel = MCH





3.2. Test Mode = LTE /TM2 10MHz

3.2.1. Test Channel = MCH





4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.091	1.281	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.091	1.296	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.094	1.293	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.112	1.278	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.088	1.284	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.091	1.281	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.697	2.994	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.697	3.006	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.697	2.988	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.685	2.976	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.679	2.976	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.679	2.958	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.466	4.870	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.466	4.920	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.466	4.930	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.486	4.950	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.486	4.970	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.486	4.950	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.931	9.680	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.911	9.660	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.951	9.740	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.931	9.720	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.911	9.700	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.971	9.720	PASS



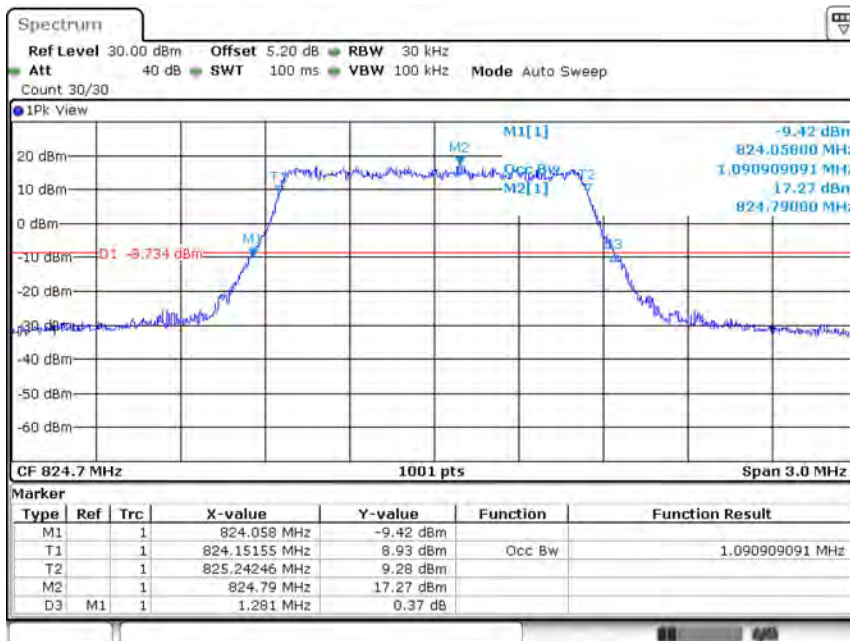
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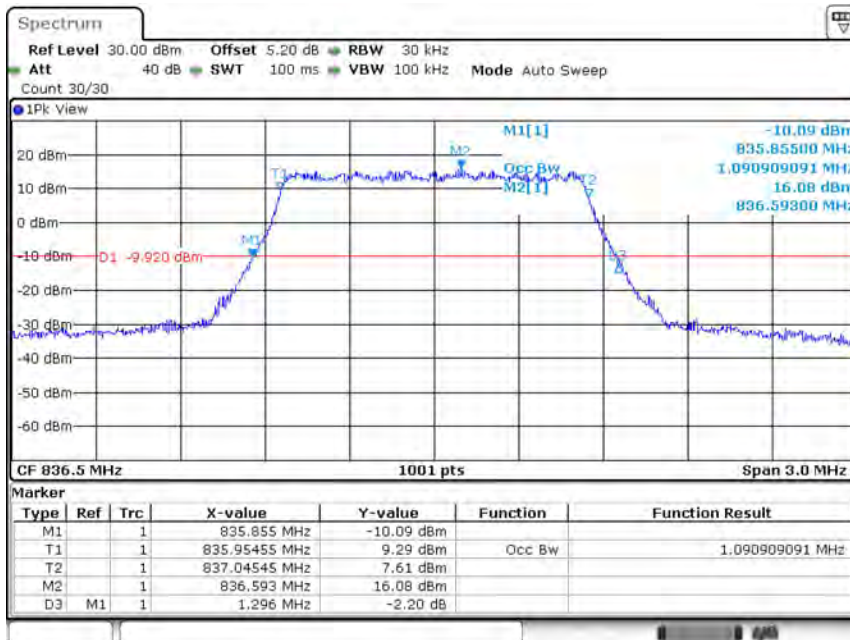
4.2. Test Plots

Band5-1.4MHz-QPSK-20407-6RB#0-1.091



Date: 27 JUN 2020 13:33:54

Band5-1.4MHz-QPSK-20525-6RB#0-1.091



Date: 27 JUN 2020 13:34:19

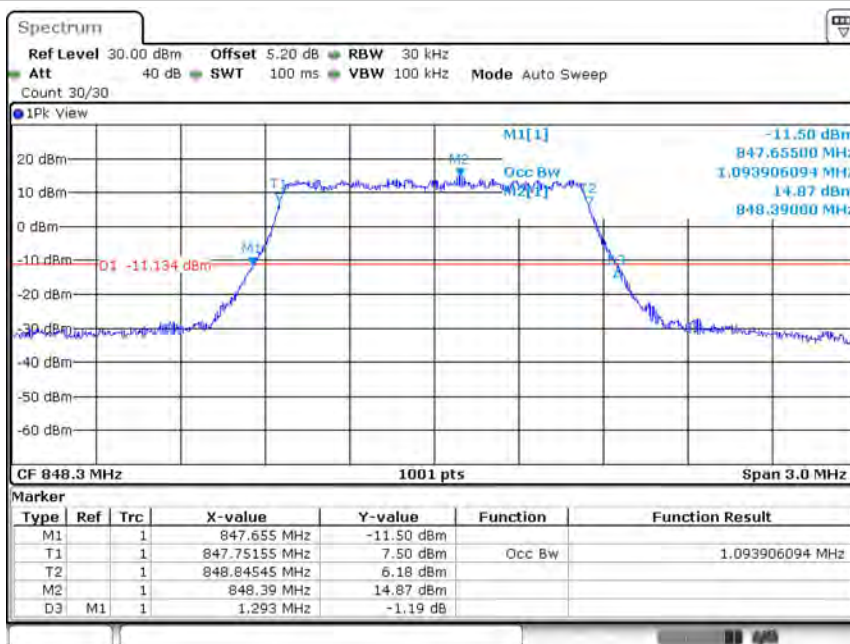


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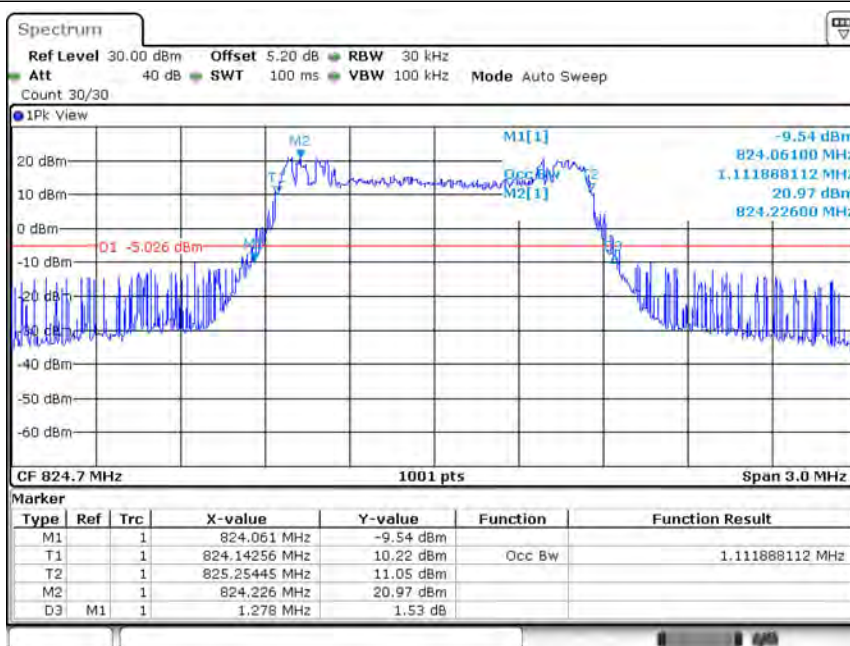
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Band5-1.4MHz-QPSK-20643-6RB#0-1.094



Date: 27 JUN 2020 13:34:45

Band5-1.4MHz-16QAM-20407-6RB#0-1.112



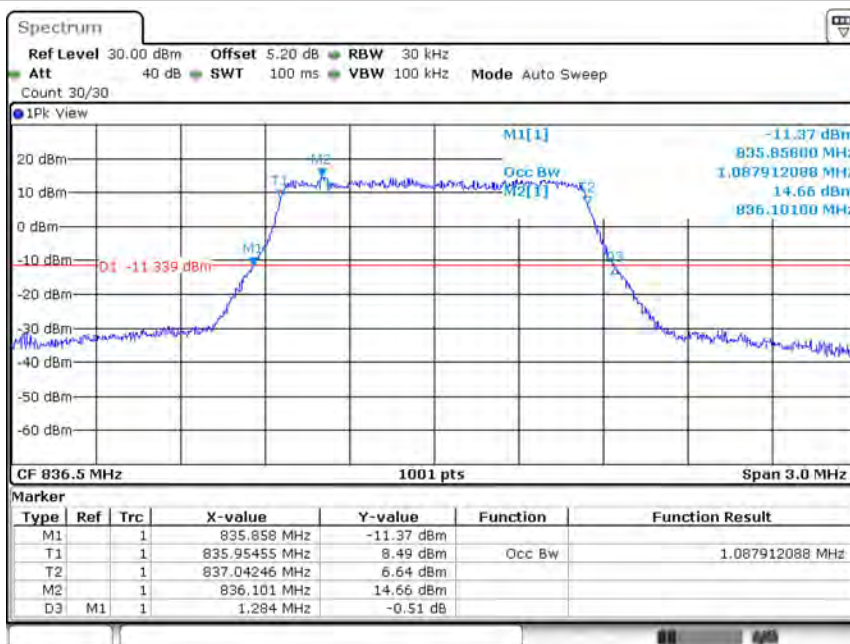
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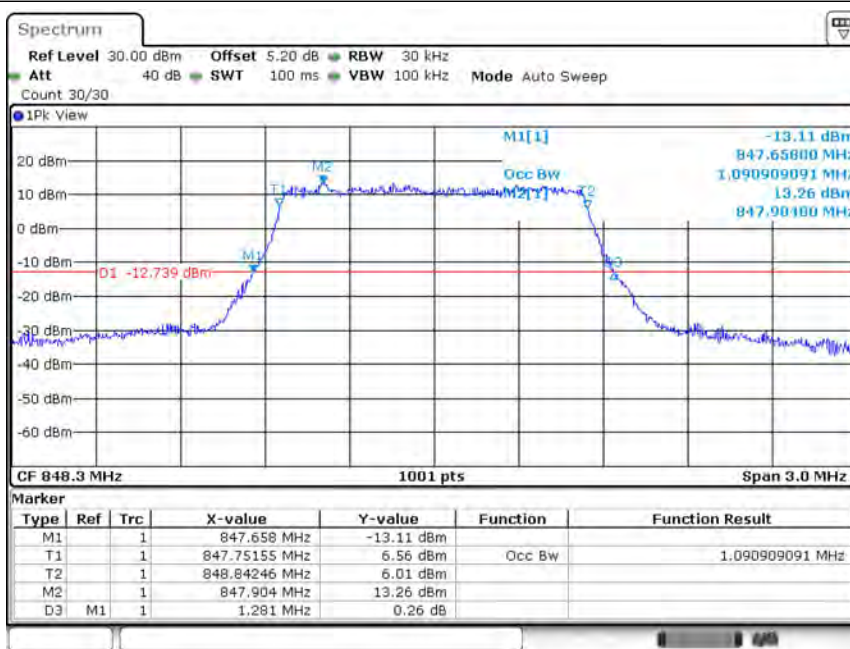
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Band5-1.4MHz-16QAM-20525-6RB#0-1.088



Date: 27 JUN 2020 13:34:32

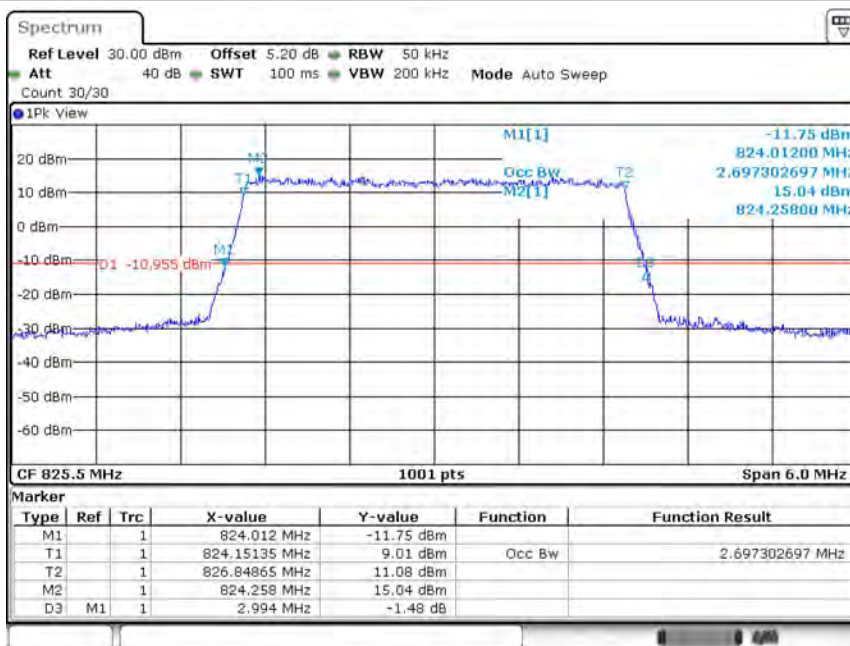
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Date: 27 JUN 2020 13:34:58

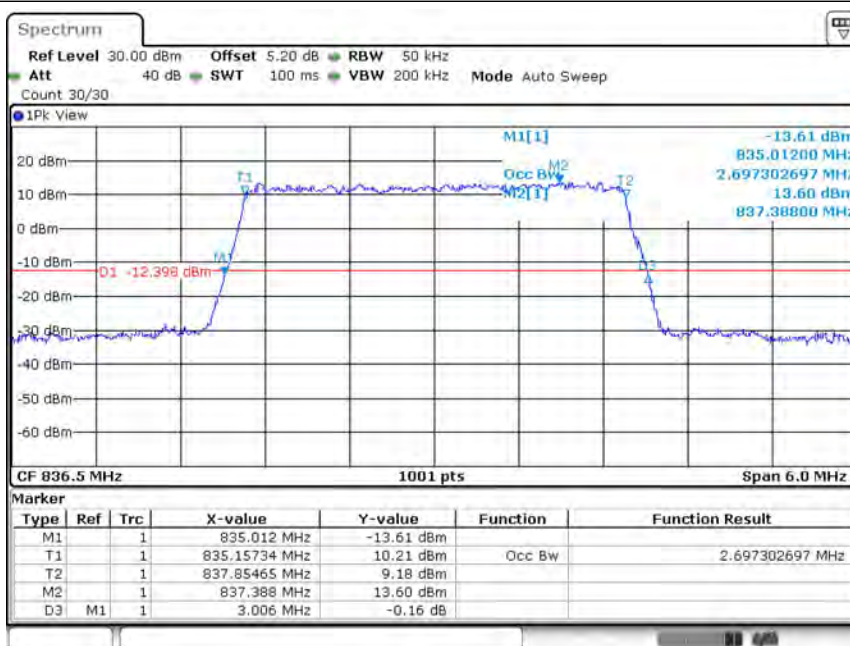


Band5-3MHz-QPSK-20415-15RB#0-2.697



Date: 27 JUN 2020 13:35:15

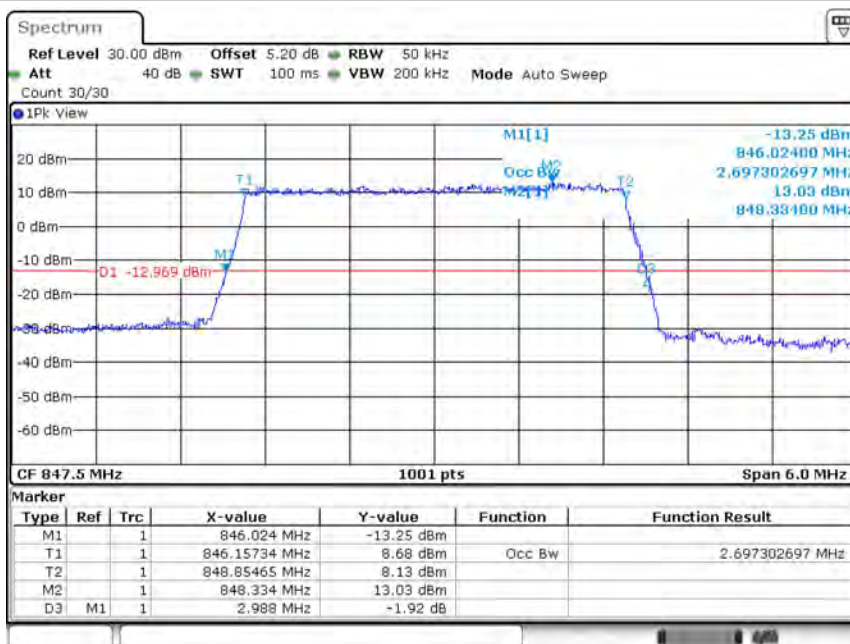
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Date: 27 JUN 2020 13:35:41

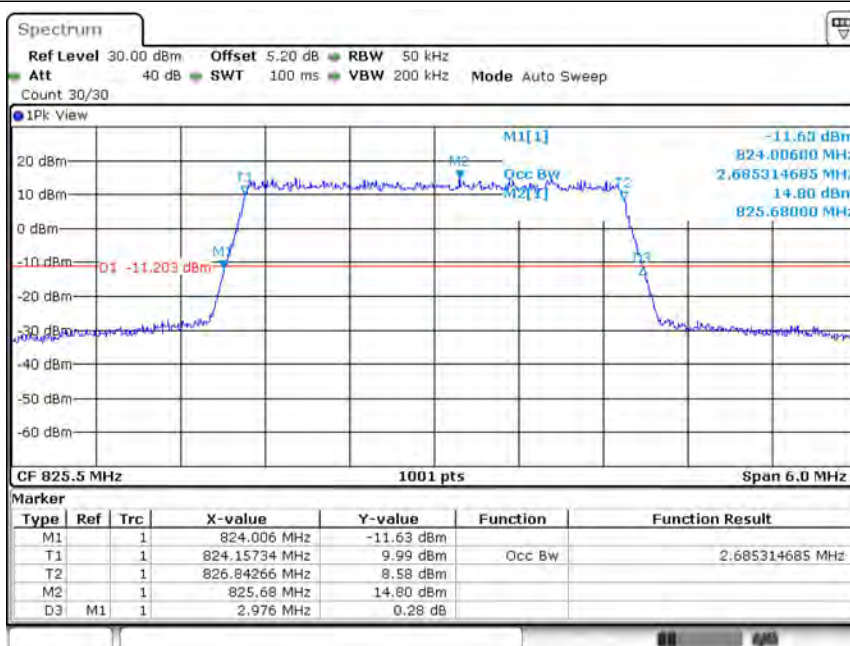


Band5-3MHz-QPSK-20635-15RB#0-2.697



Date: 27 JUN 2020 13:36:07

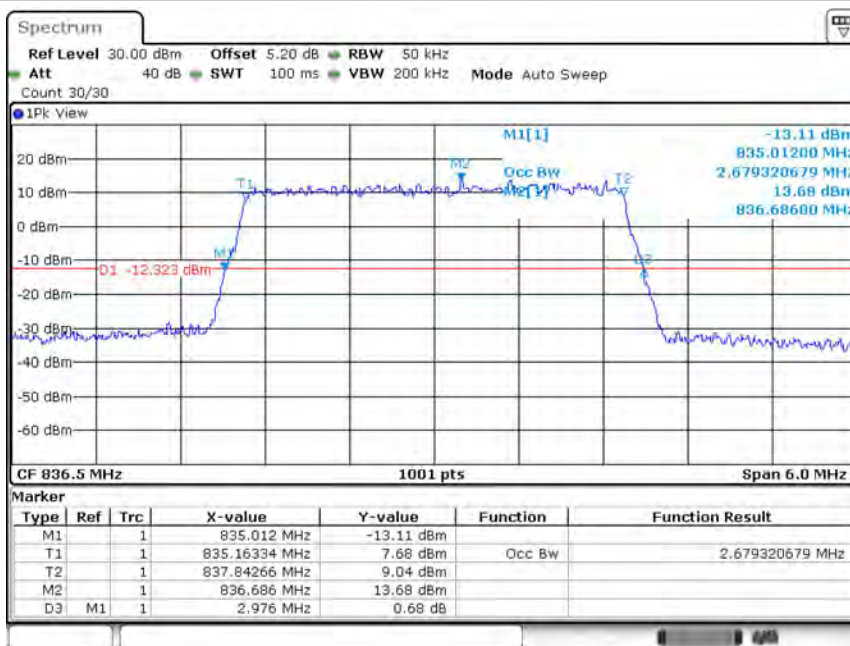
Band5-3MHz-16QAM-20415-15RB#0-2.685



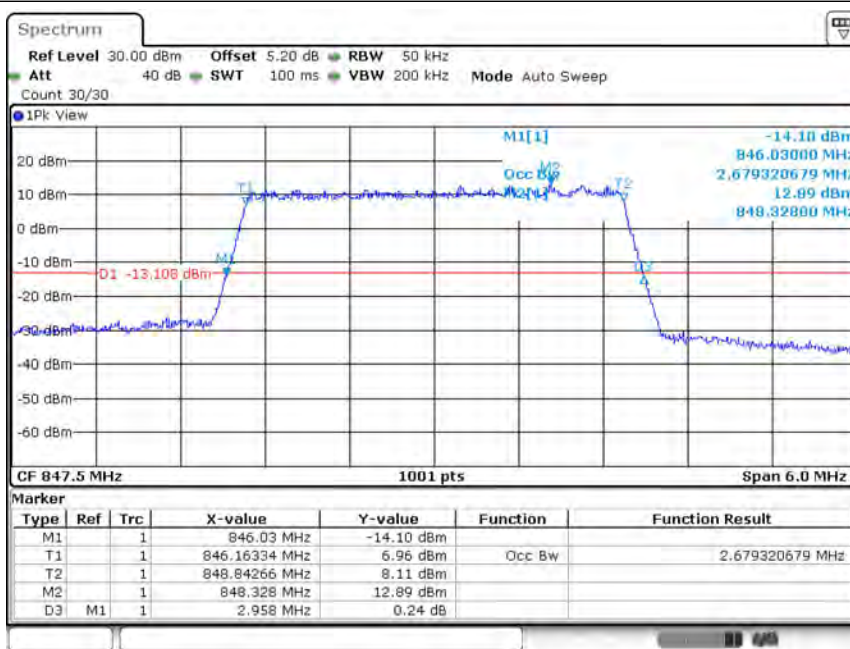
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Band5-3MHz-16QAM-20525-15RB#0-2.679



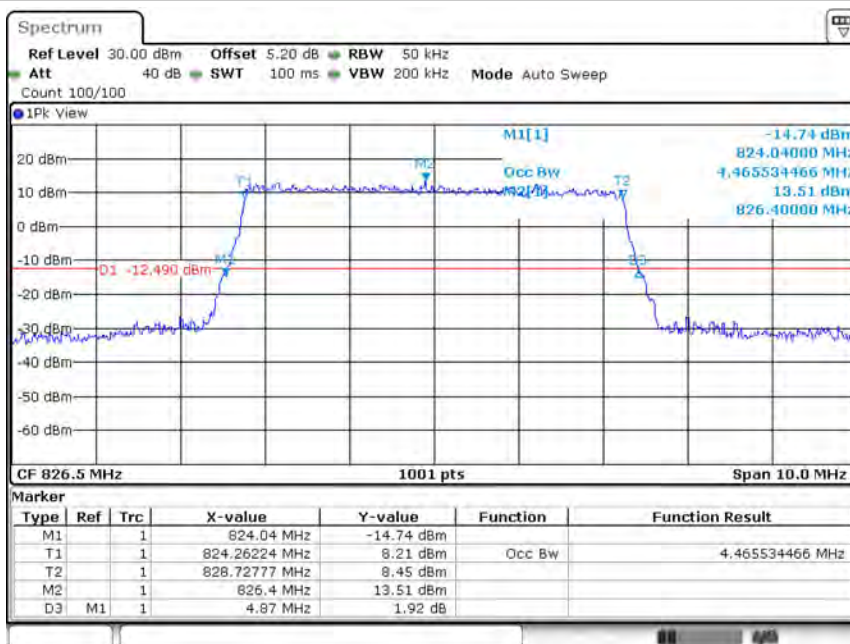
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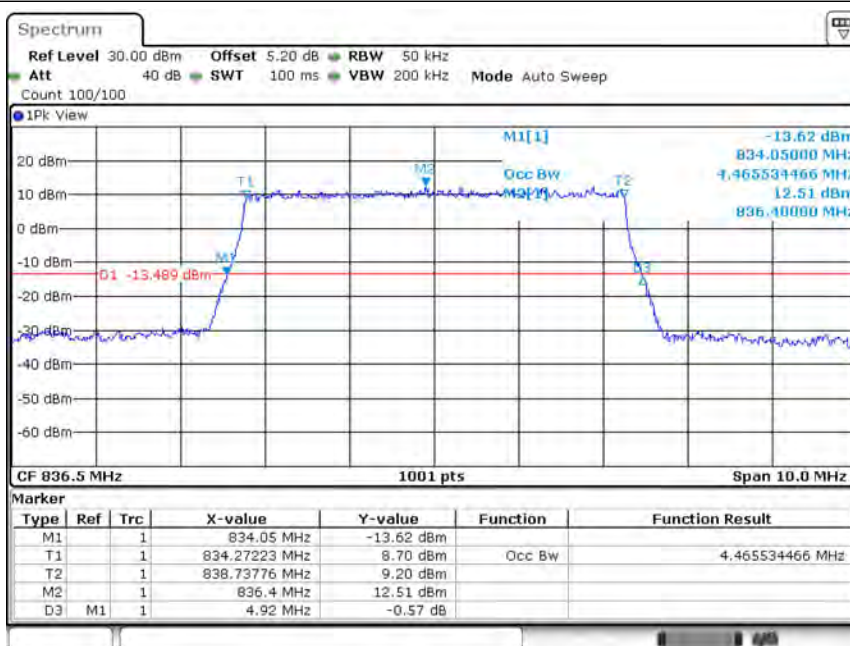


Band5-5MHz-QPSK-20425-25RB#0-4.466



Date: 27 JUN 2020 13:36:44

Band5-5MHz-QPSK-20525-25RB#0-4.466



Date: 27 JUN 2020 13:37:24

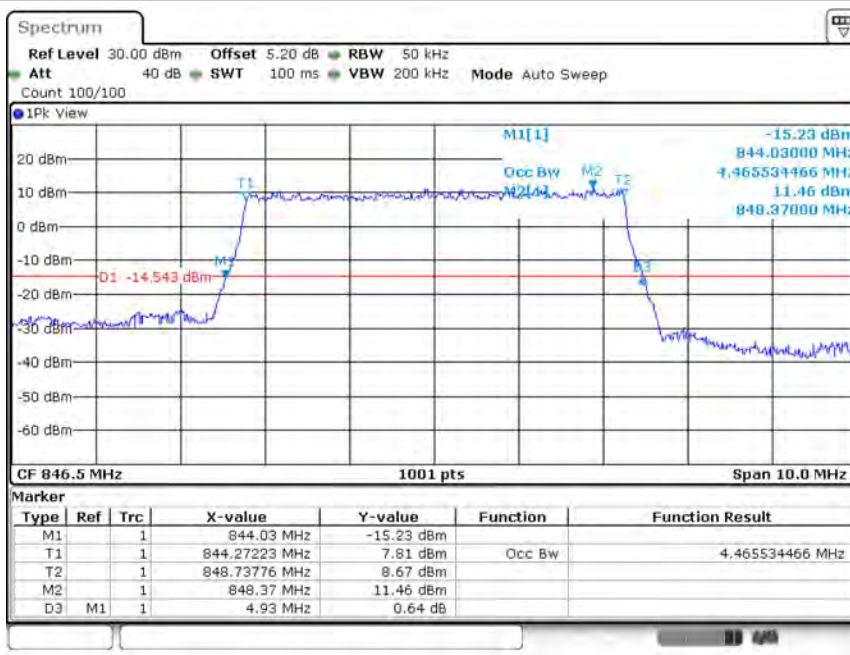


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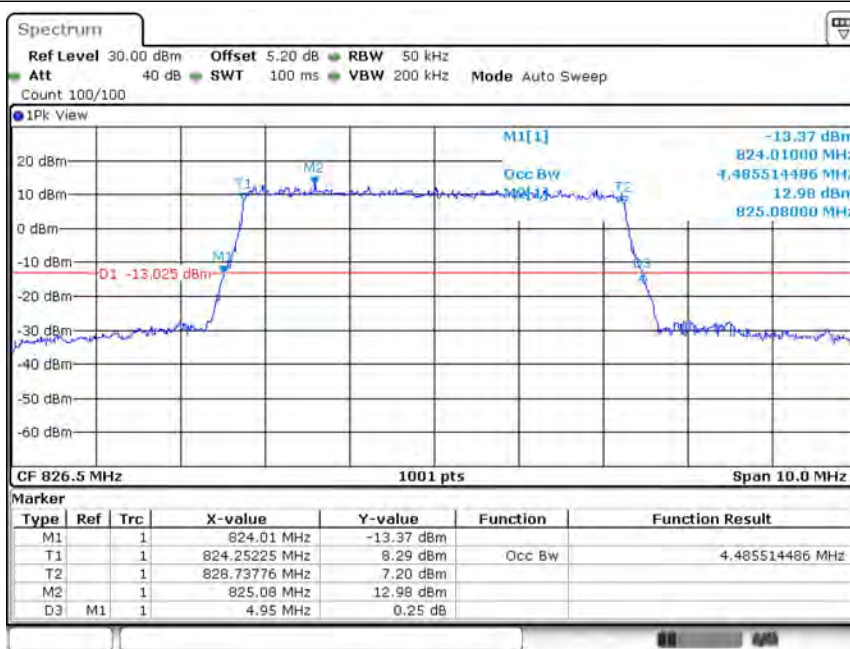


Band5-5MHz-QPSK-20625-25RB#0-4.466



Date: 27 JUN 2020 13:38:03

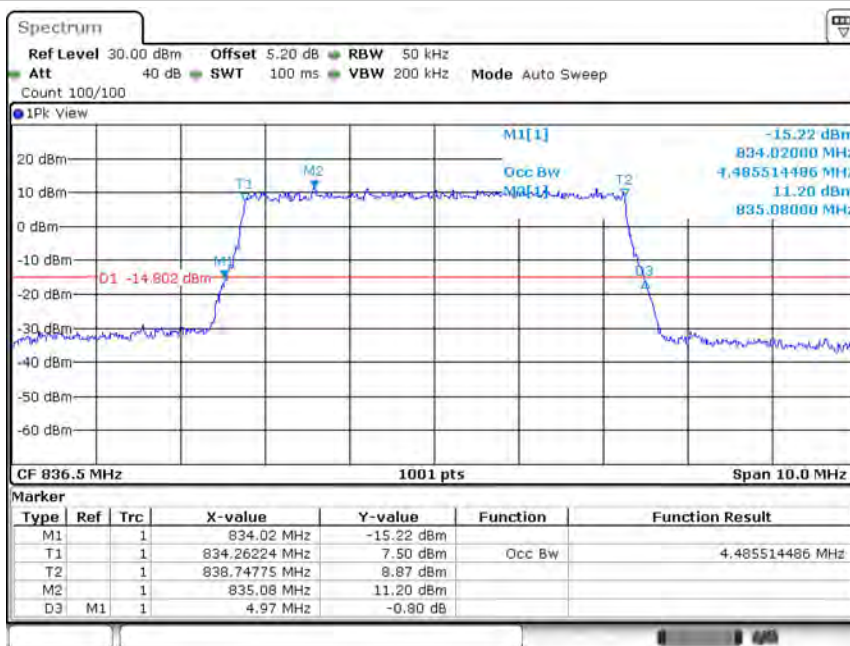
Band5-5MHz-16QAM-20425-25RB#0-4.486



Date: 27 JUN 2020 13:37:04

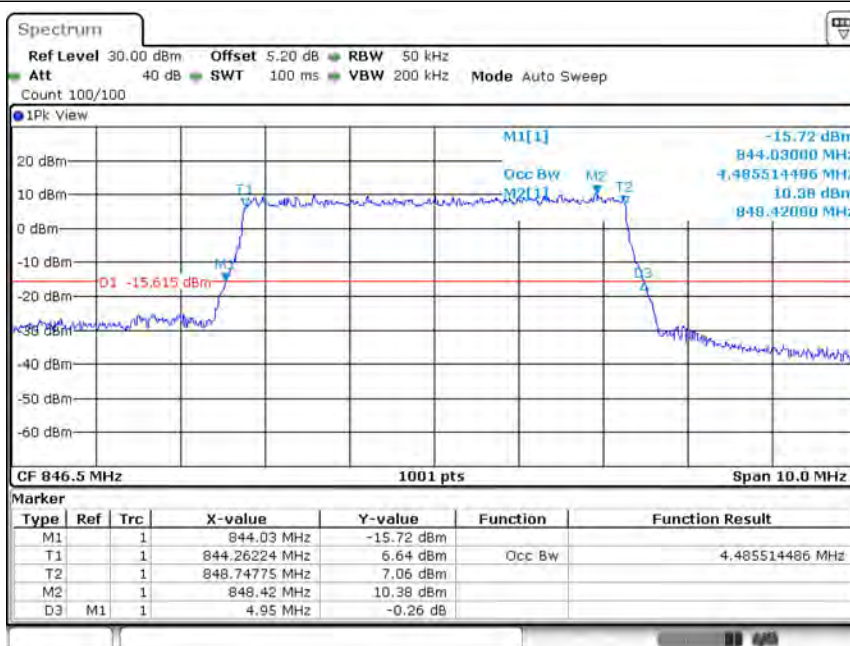


Band5-5MHz-16QAM-20525-25RB#0-4.486



Date: 27 JUN 2020 13:37:43

Band5-5MHz-16QAM-20625-25RB#0-4.486

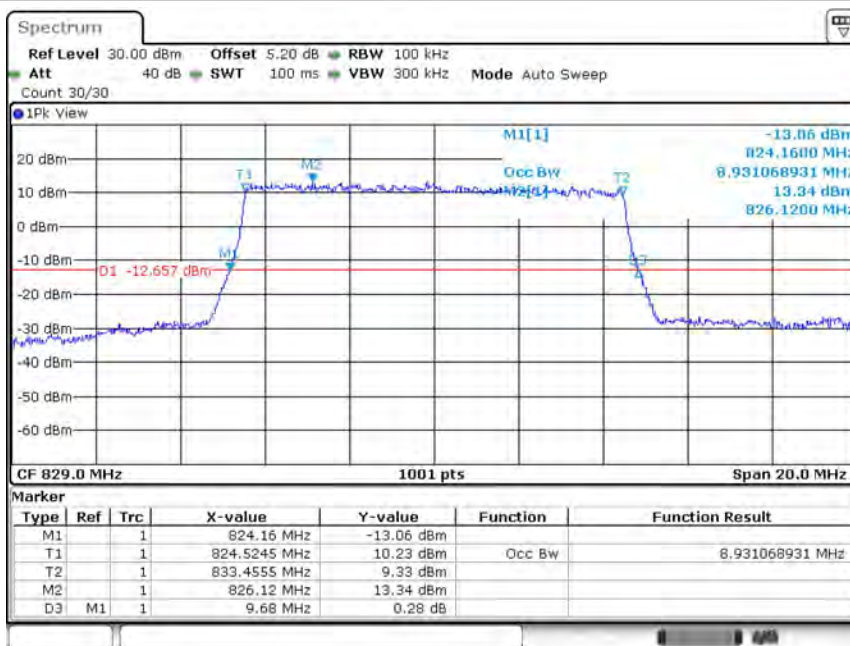


Date: 27 JUN 2020 13:38:23



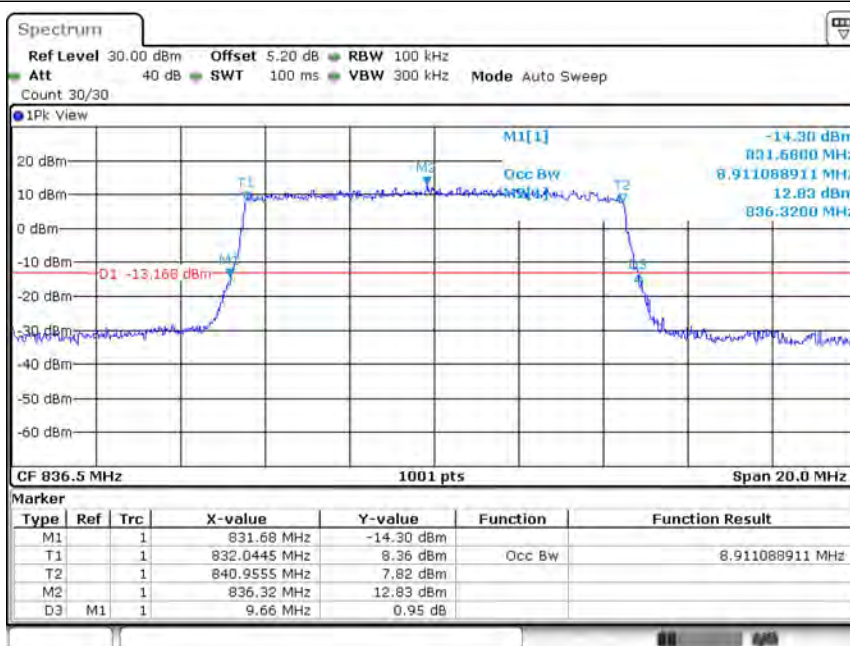


Band5-10MHz-QPSK-20450-50RB#0-8.931



Date: 27 JUN 2020 13:38:40

Band5-10MHz-QPSK-20525-50RB#0-8.911



Date: 27 JUN 2020 13:39:06

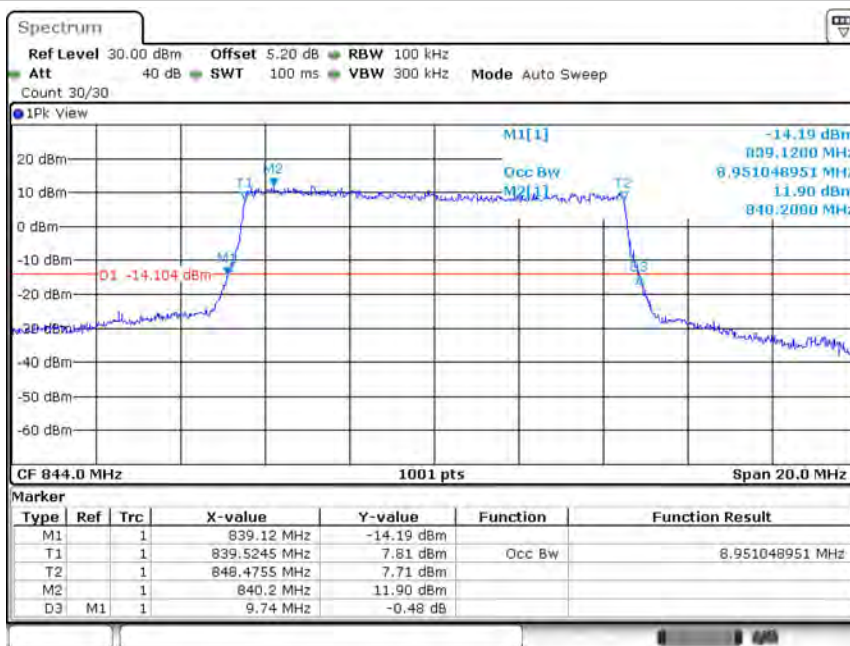


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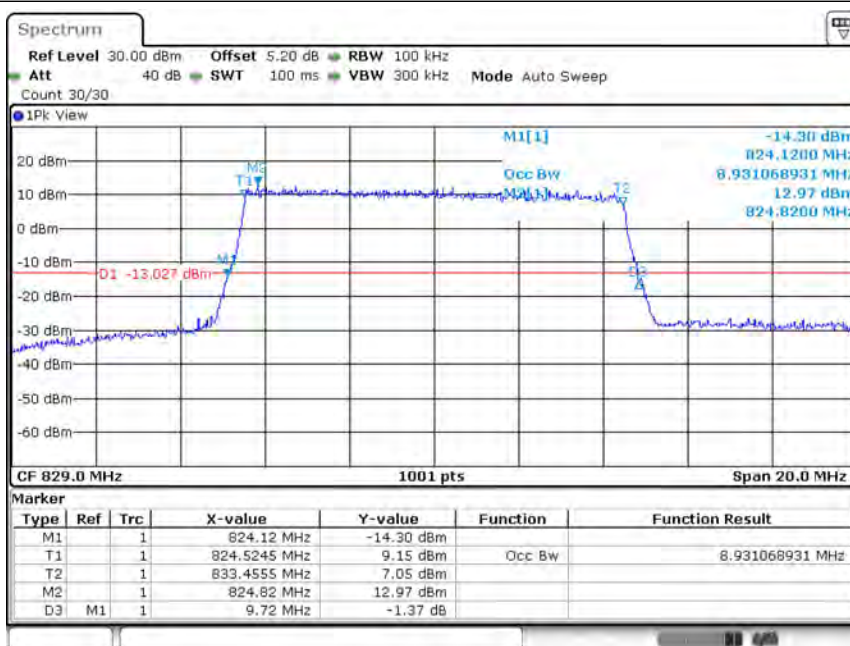


Band5-10MHz-QPSK-20600-50RB#0-8.951



Date: 27 JUN 2020 13:39:32

Band5-10MHz-16QAM-20450-50RB#0-8.931



Date: 27 JUN 2020 13:38:53

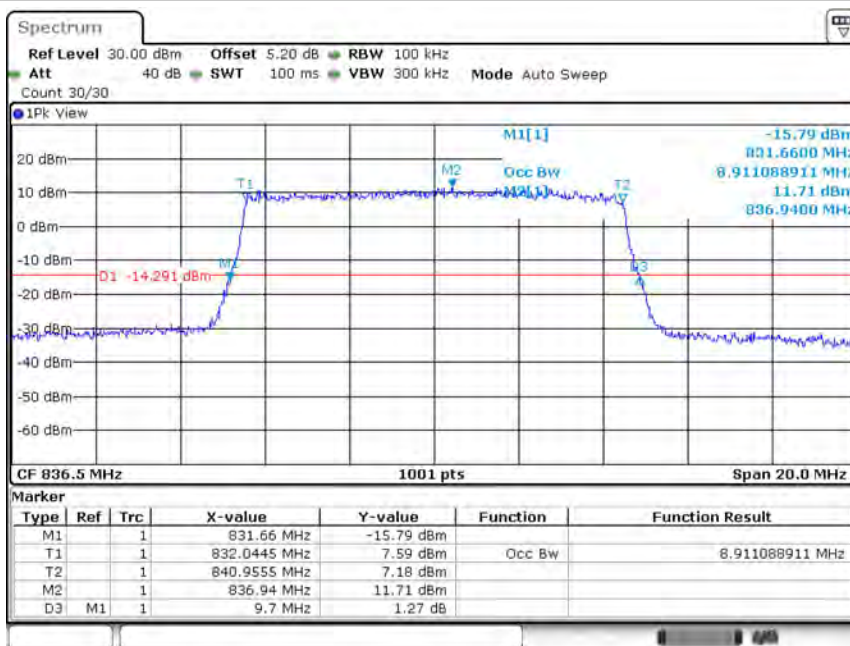


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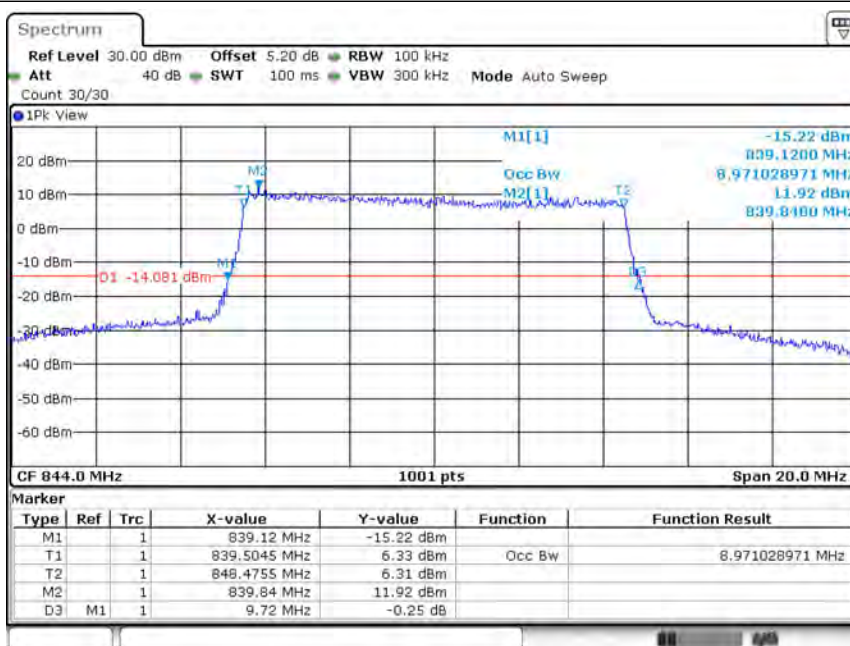


Band5-10MHz-16QAM-20525-50RB#0-8.911



Date: 27 JUN 2020 13:39:19

Band5-10MHz-16QAM-20600-50RB#0-8.971



Date: 27 JUN 2020 13:39:44



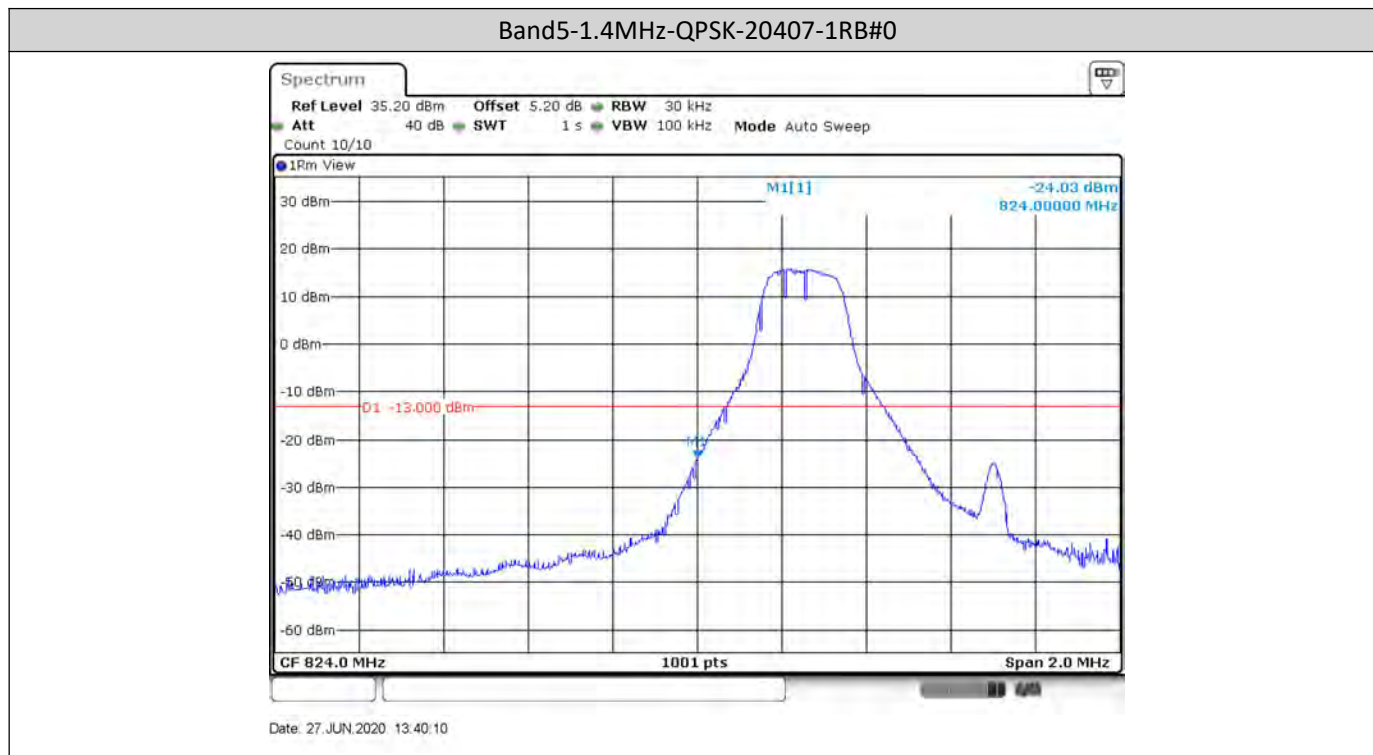
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5. Band Edge Compliance

5.1. Test Plots





Band5-1.4MHz-QPSK-20407-6RB#0



Date: 27 JUN 2020 13:40:51

Band5-1.4MHz-QPSK-20643-1RB#5



Date: 27 JUN 2020 13:41:36





Band5-1.4MHz-QPSK-20643-6RB#0



Date: 27 JUN 2020 13:42:17

Band5-1.4MHz-16QAM-20407-1RB#0



Date: 27 JUN 2020 13:40:31



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Band5-1.4MHz-16QAM-20407-6RB#0



Date: 27 JUN 2020 13:41:11

Band5-1.4MHz-16QAM-20643-1RB#5



Date: 27 JUN 2020 13:41:57





Band5-1.4MHz-16QAM-20643-6RB#0



Date: 27 JUN 2020 13:42:38

Band5-3MHz-QPSK-20415-1RB#0



Date: 27 JUN 2020 13:43:03



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Band5-3MHz-QPSK-20415-15RB#0



Date: 27 JUN 2020 13:43:44

Band5-3MHz-QPSK-20635-1RB#14



Date: 27 JUN 2020 13:44:30



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Band5-3MHz-QPSK-20635-15RB#0



Date: 27 JUN 2020 13:45:12

Band5-3MHz-16QAM-20415-1RB#0



Date: 27 JUN 2020 13:43:24



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Band5-3MHz-16QAM-20415-15RB#0



Date: 27 JUN 2020 13:44:05

Band5-3MHz-16QAM-20635-1RB#14



Date: 27 JUN 2020 13:44:50



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Band5-3MHz-16QAM-20635-15RB#0



Date: 27 JUN 2020 13:45:32

Band5-5MHz-QPSK-20425-1RB#0



Date: 27 JUN 2020 13:45:58



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Band5-5MHz-QPSK-20425-25RB#0



Date: 27 JUN 2020 13:46:39

Band5-5MHz-QPSK-20625-1RB#24



Date: 27 JUN 2020 13:47:25





Band5-5MHz-QPSK-20625-25RB#0



Date: 27 JUN 2020 13:48:06

Band5-5MHz-16QAM-20425-1RB#0



Date: 27 JUN 2020 13:46:18



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Band5-5MHz-16QAM-20425-25RB#0



Date: 27 JUN 2020 13:47:00

Band5-5MHz-16QAM-20625-1RB#24



Date: 27 JUN 2020 13:47:45



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Band5-5MHz-16QAM-20625-25RB#0



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Band5-10MHz-QPSK-20450-1RB#0



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Band5-10MHz-QPSK-20450-50RB#0



Date: 27 JUN 2020 13:49:33

Band5-10MHz-QPSK-20600-1RB#49



Date: 27 JUN 2020 13:50:19



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Band5-10MHz-QPSK-20600-50RB#0



Date: 27 JUN 2020 13:51:00

Band5-10MHz-16QAM-20450-1RB#0



Date: 27 JUN 2020 13:49:13





Band5-10MHz-16QAM-20450-50RB#0



Date: 27 JUN 2020 13:49:54

Band5-10MHz-16QAM-20600-1RB#49



Date: 27 JUN 2020 13:50:39





Band5-10MHz-16QAM-20600-50RB#0



Date: 27 JUN 2020 13:51:21



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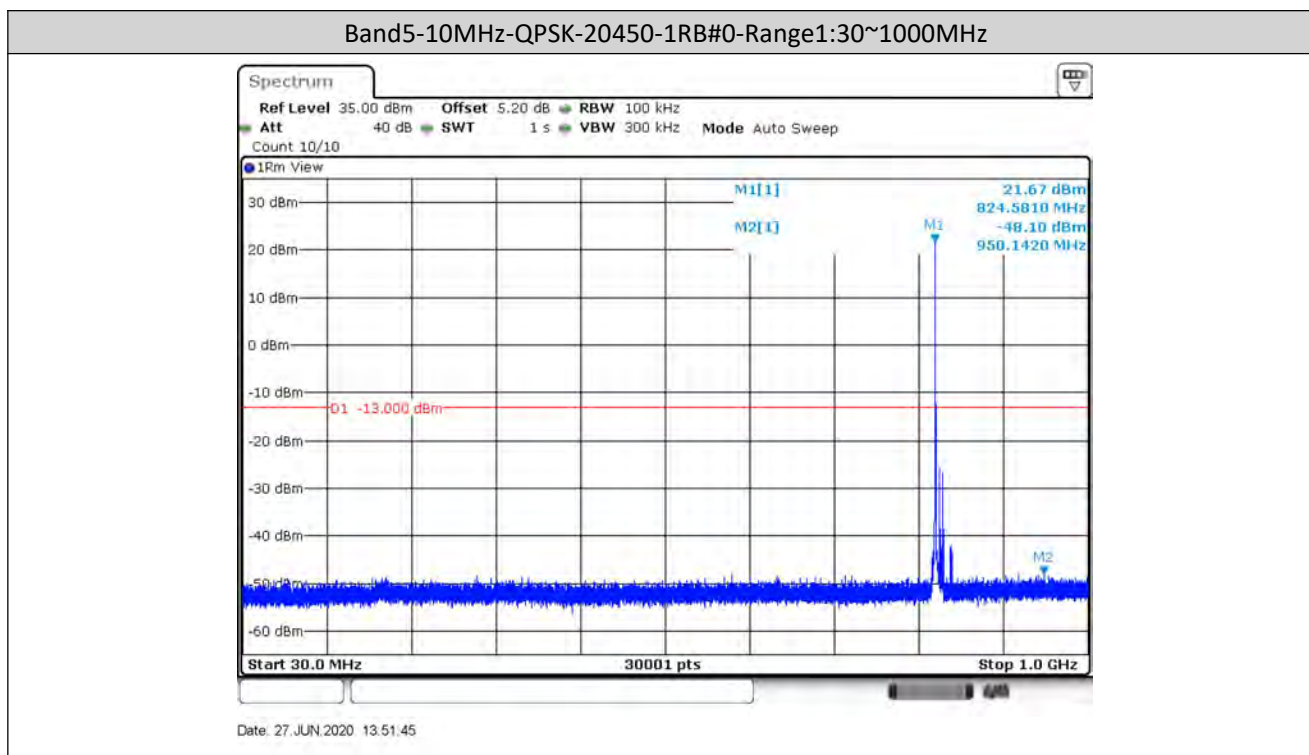
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6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

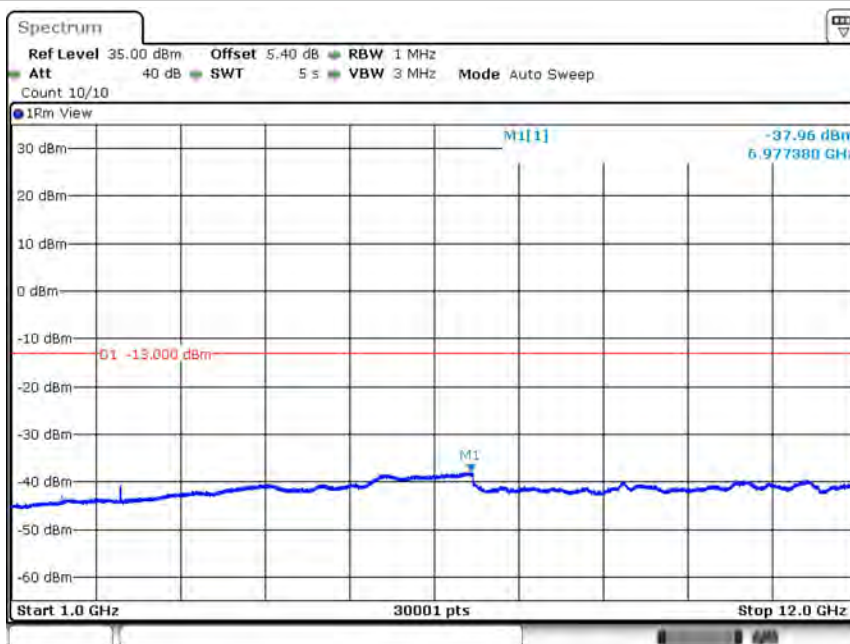
Remark2: only the worst case data displayed in this report.

6.1. Test Plots



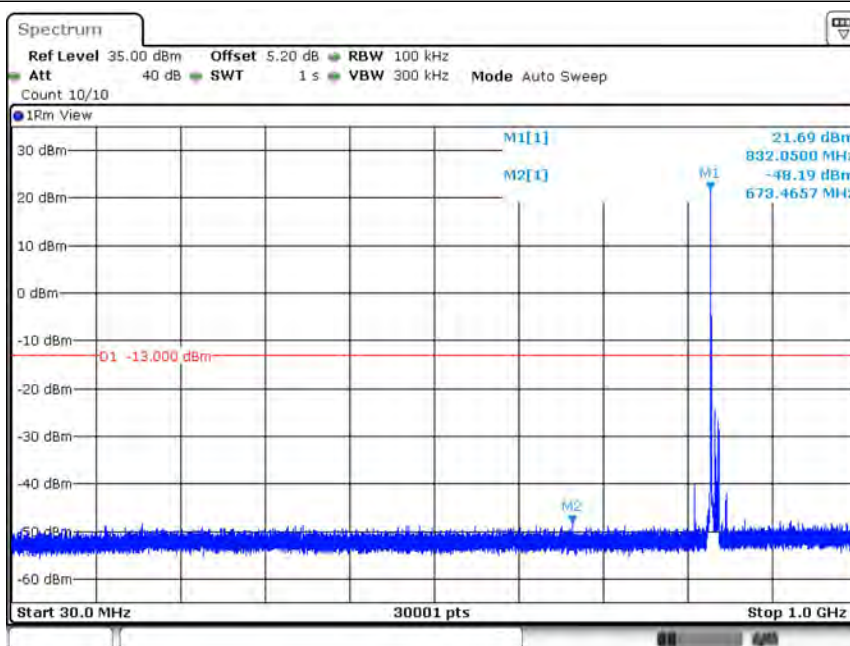


Band5-10MHz-QPSK-20450-1RB#0-Range2:1000~12000MHz



Date: 27 JUN 2020 13:52:52

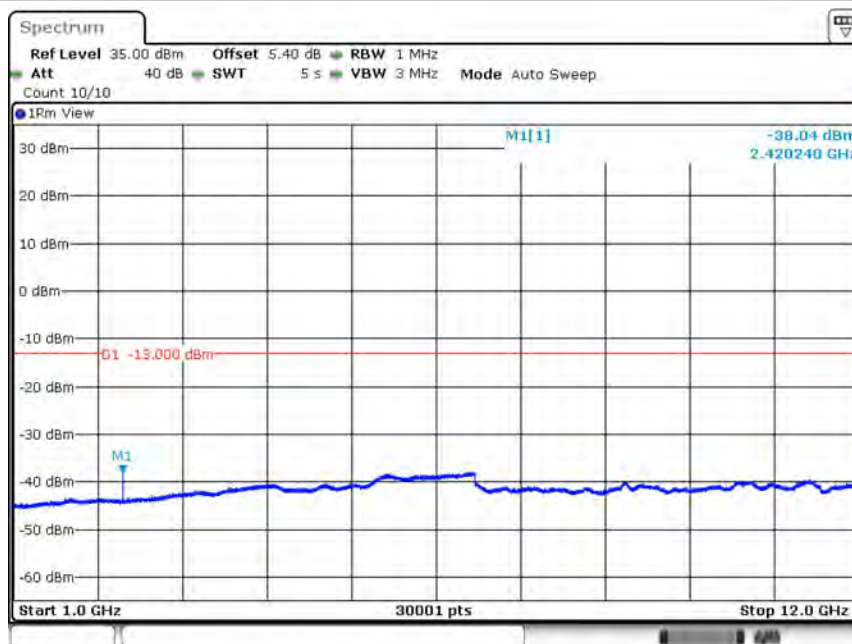
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Date: 27 JUN 2020 13:54:39

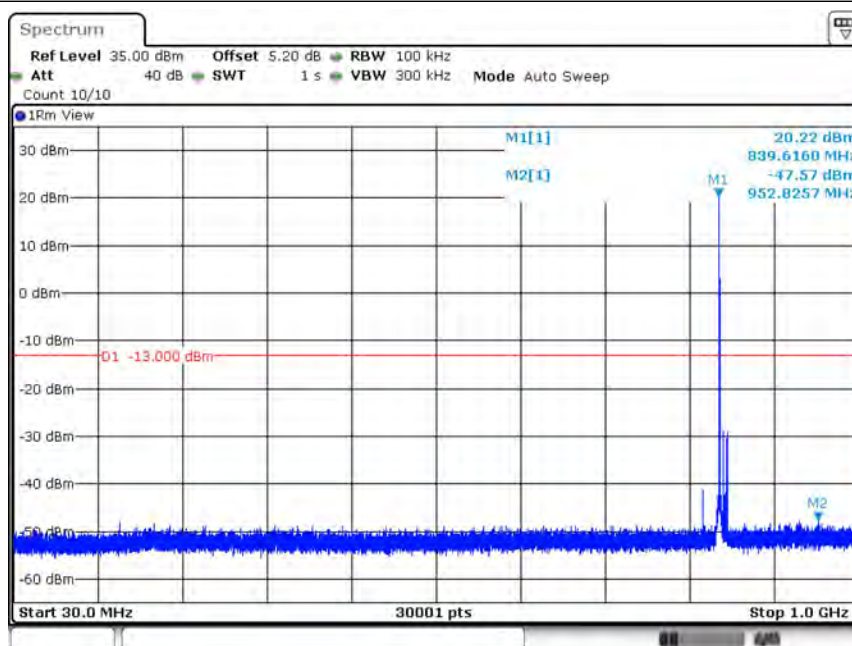


Band5-10MHz-QPSK-20525-1RB#0-Range2:1000~12000MHz



Date: 27 JUN 2020 13:55:46

Band5-10MHz-QPSK-20600-1RB#0-Range1:30~1000MHz



Date: 27 JUN 2020 13:57:34

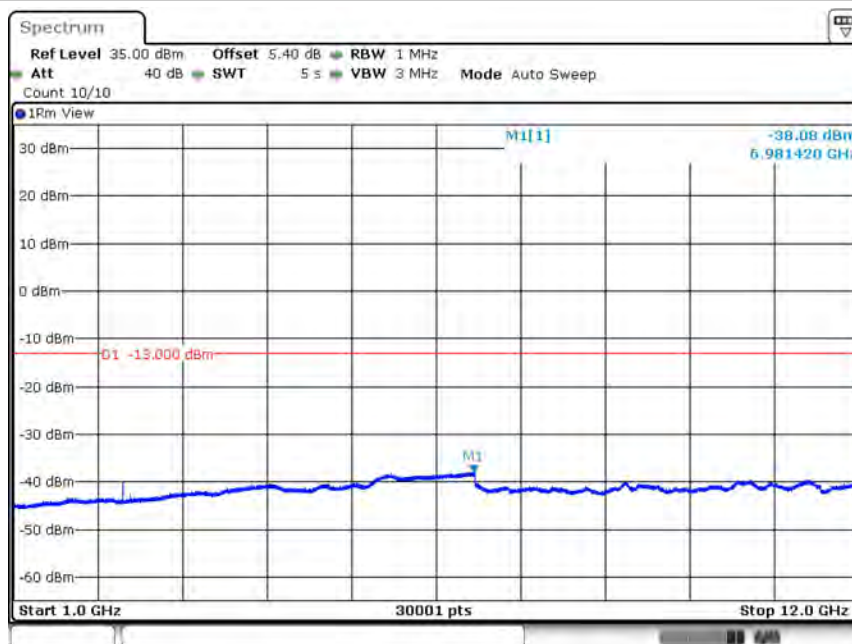


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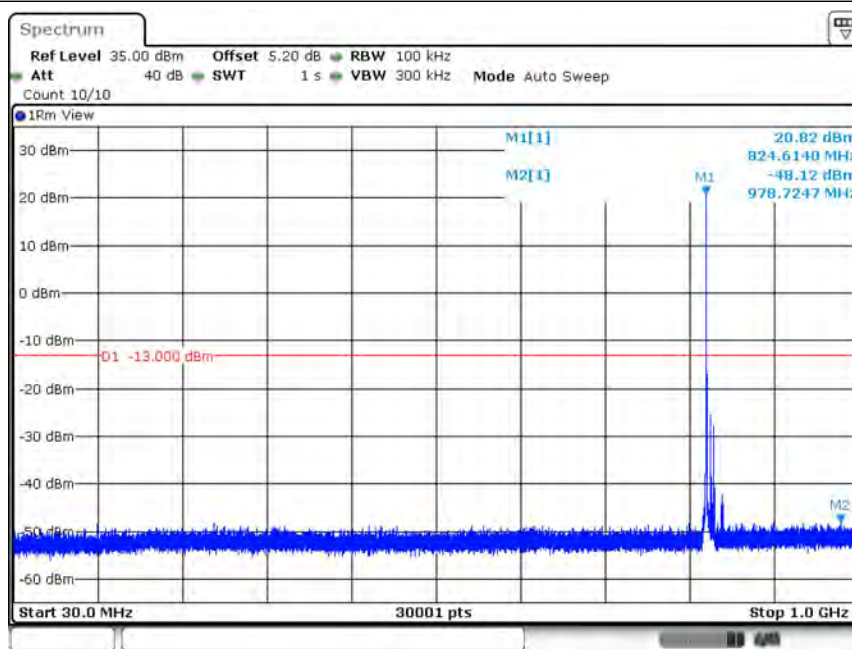
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Band5-10MHz-QPSK-20600-1RB#0-Range2:1000~12000MHz



Band5-10MHz-16QAM-20450-1RB#0-Range1:30~1000MHz

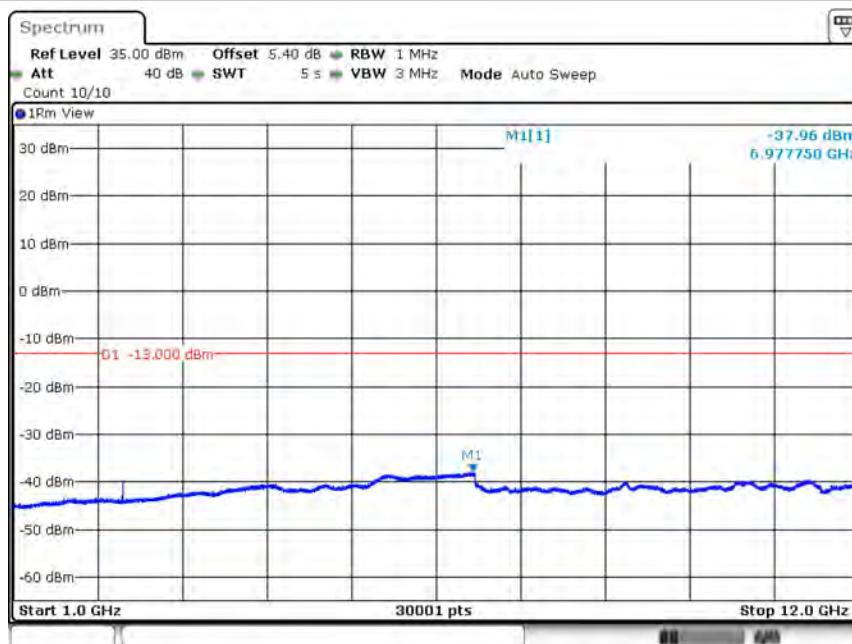


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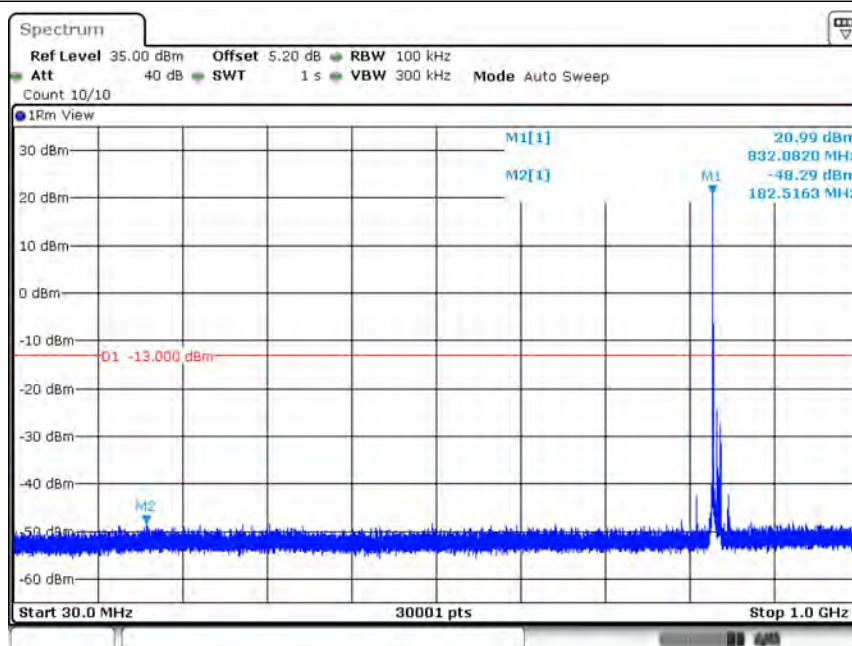
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Band5-10MHz-16QAM-20450-1RB#0-Range2:1000~12000MHz



Date: 27 JUN 2020 13:54:19

Band5-10MHz-16QAM-20525-1RB#0-Range1:30~1000MHz



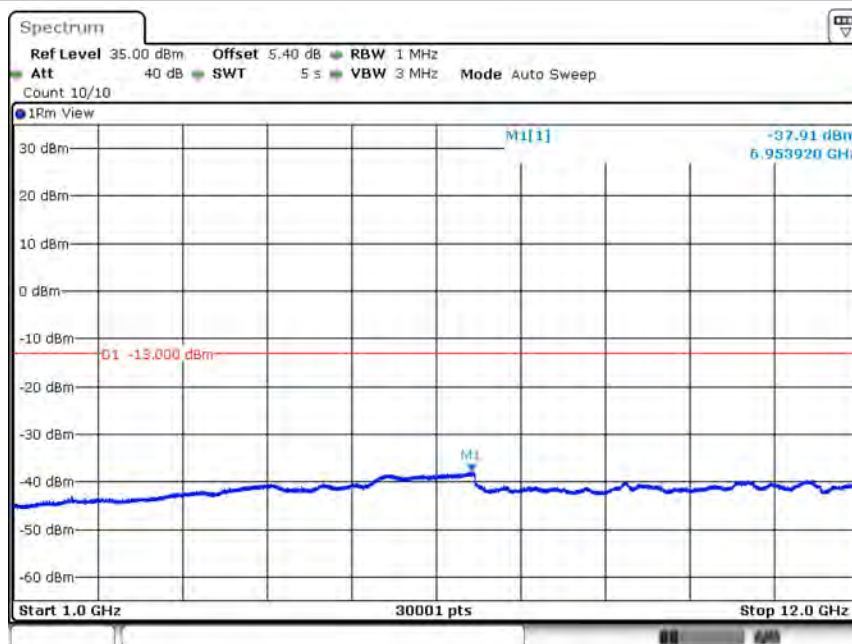
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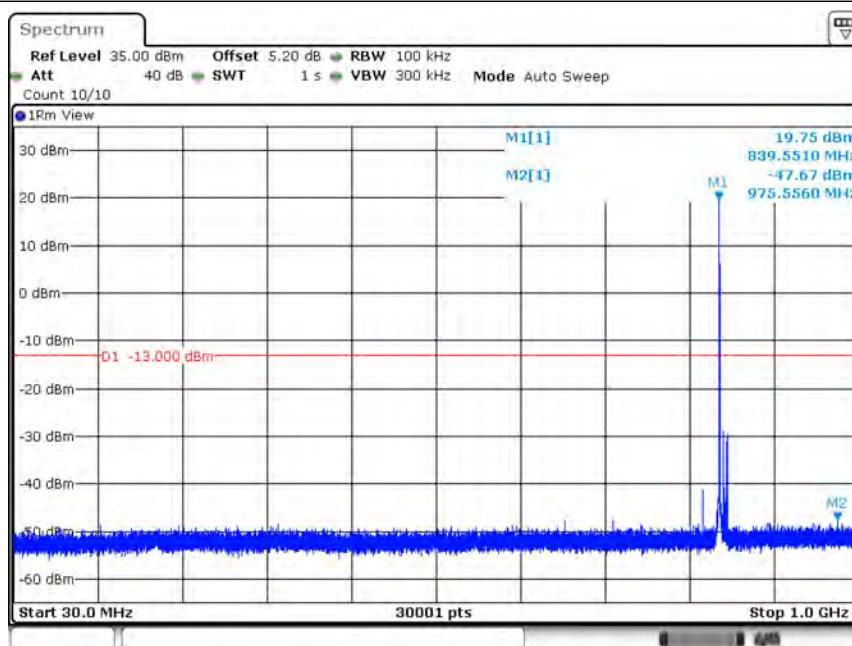
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Band5-10MHz-16QAM-20525-1RB#0-Range2:1000~12000MHz



Date: 27 JUN 2020 13:57:13

Band5-10MHz-16QAM-20600-1RB#0-Range1:30~1000MHz



Date: 27 JUN 2020 13:59:00

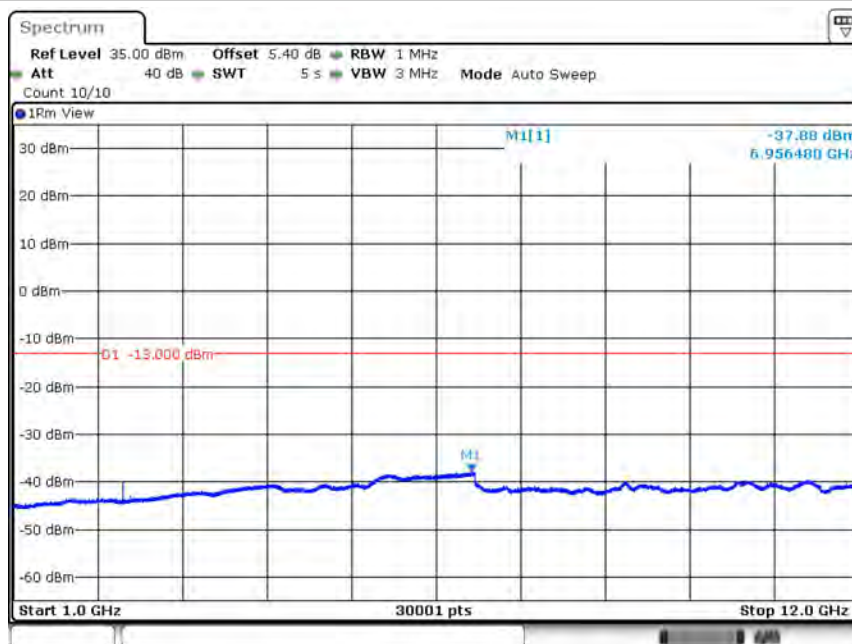


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Band5-10MHz-16QAM-20600-1RB#0-Range2:1000~12000MHz



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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 10MHz

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
30.5820	-51.36	-13.00	38.36	Vertical
75.3013	-50.67	-13.00	37.67	Vertical
244.5747	-68.57	-13.00	55.57	Vertical
1649.3299	-58.26	-13.00	45.26	Vertical
2698.3397	-57.55	-13.00	44.55	Vertical
7975.1658	-55.31	-13.00	42.31	Vertical
-52.55	-57.25	-13.00	44.25	Horizontal
-51.05	-56.71	-13.00	43.71	Horizontal
-68.54	-65.11	-13.00	52.11	Horizontal
-62.08	-55.39	-13.00	42.39	Horizontal
-55.83	-54.43	-13.00	41.43	Horizontal
-47.68	-60.28	-13.00	47.28	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
41.7861	-53.85	-13.00	40.85	Vertical
68.4139	-50.58	-13.00	37.58	Vertical
308.6464	-66.94	-13.00	53.94	Vertical
1664.1328	-58.69	-13.00	45.69	Vertical
2496.2993	-54.51	-13.00	41.51	Vertical
7451.5484	-55.76	-13.00	42.76	Vertical
70.5965	-56.30	-13.00	43.30	Horizontal
143.1562	-66.68	-13.00	53.68	Horizontal
238.6574	-65.51	-13.00	52.51	Horizontal
1664.1328	-58.51	-13.00	45.51	Horizontal
2496.2993	-48.39	-13.00	35.39	Horizontal
3328.2109	-58.01	-13.00	45.01	Horizontal



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7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
30.8245	-51.60	-13.00	38.60	Vertical
68.7049	-50.84	-13.00	37.84	Vertical
257.4279	-68.09	-13.00	55.09	Vertical
1678.9358	-56.55	-13.00	43.55	Vertical
2695.9392	-57.63	-13.00	44.63	Vertical
7457.3486	-55.18	-13.00	42.18	Vertical
41.8831	-56.72	-13.00	43.72	Horizontal
70.3055	-56.86	-13.00	43.86	Horizontal
239.9670	-64.95	-13.00	51.95	Horizontal
1678.9358	-55.85	-13.00	42.85	Horizontal
2519.1038	-51.76	-13.00	38.76	Horizontal
3358.2119	-58.32	-13.00	45.32	Horizontal

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.



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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	VL	NT	-1.60	-0.001930	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	-1.30	-0.001568	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-0.90	-0.001076	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	0.10	0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-1.20	-0.001435	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	-1.80	-0.002133	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	-0.90	-0.001066	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	-1.20	-0.001422	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	-1.40	-0.001689	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	0.00	0.000000	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	0.50	0.000603	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	-0.40	-0.000478	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	-1.20	-0.001435	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	0.70	0.000837	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	-0.20	-0.000237	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	-1.10	-0.001303	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	-0.30	-0.000355	±2.5	PASS



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8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	-1.30	-0.001568	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	0.80	0.000965	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	-0.80	-0.000965	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	-1.70	-0.002051	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	-0.40	-0.000483	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	-1.30	-0.001568	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	-0.50	-0.000603	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	-1.50	-0.001809	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-2.00	-0.002391	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-0.80	-0.000956	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-1.50	-0.001793	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-0.10	-0.000120	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	0.50	0.000598	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-0.30	-0.000359	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-0.60	-0.000717	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-1.60	-0.001896	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	-0.20	-0.000237	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	-0.60	-0.000711	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-1.10	-0.001303	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-1.10	-0.001303	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	-0.10	-0.000118	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	-0.50	-0.000592	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	-1.10	-0.001303	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	-1.00	-0.001206	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	-0.40	-0.000483	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	0.70	0.000844	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	-0.60	-0.000724	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	-0.10	-0.000121	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	30	-0.30	-0.000362	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	40	0.20	0.000241	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	0.60	0.000724	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	-0.70	-0.000837	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	-0.50	-0.000598	±2.5	PASS





Band5	10MHz	16QAM	20525	50RB#0	NV	0	-0.70	-0.000837	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	-1.00	-0.001195	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	-0.50	-0.000598	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	0.20	0.000239	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	-1.20	-0.001435	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	0.40	0.000478	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	-0.60	-0.000711	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	-0.70	-0.000829	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	0.40	0.000474	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	10	0.00	0.000000	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	-0.30	-0.000355	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	30	0.60	0.000711	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	40	-0.10	-0.000118	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	50	-1.50	-0.001777	±2.5	PASS



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SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (SGS-CSTC Laboratory)

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com